

EMOTIVA®



BASX TA2+

Stereo Integrated Amp/DAC/Tuner
User Manual

Important Safety Precautions and Explanation of Symbols



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important installation, operation, and service instructions in this manual.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltages within the enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to the user.

Please read this manual thoroughly before attempting to install, configure, or operate the BasX TA2+ Stereo Integrated Amp/DAC/Tuner. After successful installation and configuration of the TA2+, be sure to retain this manual in a safe place for future reference.

Safety is a key component to a long lasting and trouble free installation. Please read and follow all instructions and heed all warnings on the TA2+ and in this manual. The vast majority of the subsequent safety precautions are common sense. If you are not comfortable with the installation of audio/video entertainment equipment, you should seek the services of a qualified installation professional or call us for help.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT USE THE TA2+ NEAR WATER OR IN WET LOCATIONS, DO NOT EXPOSE IT TO RAIN OR MOISTURE, DO NOT EXPOSE IT TO DRIPPING OR SPLASHING FROM OTHER SOURCES, AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS (SUCH AS VASES) ARE PLACED ON IT. DOING SO MAY RESULT IN DAMAGE TO THE UNIT AND THE RISK OF ELECTRIC SHOCK, WHICH MAY RESULT IN BODILY INJURY OR DEATH.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER FROM THE TA2+. THERE ARE NO USER-SERVICEABLE PARTS INSIDE THE UNIT. REFER ALL SERVICE TO QUALIFIED SERVICE PERSONNEL.

Do not install the TA2+ near or above any heat sources such as radiators, heating vents, or other apparatus' that produce heat. Do not block any ventilation openings or heat sinks. Avoid installing the unit directly above other heat-producing equipment unless sufficient ventilation or forced-air cooling is provided.

Do not install the TA2+ in locations without proper ventilation. The TA2+ should not be operated on a bed, sofa, rug, or similar surface that may block vents. The unit should not be installed in an enclosed location such as a bookcase, cabinet, or closed equipment rack unless sufficient forced-air ventilation is provided.

Always install your TA2+ according to the manufacturer's instructions and only use attachments or accessories specified by the manufacturer.

Do not install the TA2+ on any stand, shelf, or other piece of furniture that is unable to support its weight. If a cart is used to move the unit, use caution to avoid injury from tip-over.

Connect the TA2+ only to power sources of the correct voltage (as shown in this manual and on the TA2+ unit).

Protect power supply cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit.

Only connect the TA2+ to an electrical outlet or extension cord of appropriate type and rating.

DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades - one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.

The power cable for the TA2+ should be unplugged from the outlet during severe electrical storms, or when unused for a long period of time.

Only replace the fuse(s) in the TA2+ with fuse(s) of proper value and voltage rating.



The TA2+ should only be cleaned as directed in the manual. Avoid spraying liquids directly onto the unit and NEVER spray liquids into the vents. Care should be taken so that small objects do not fall into the inside of the unit.

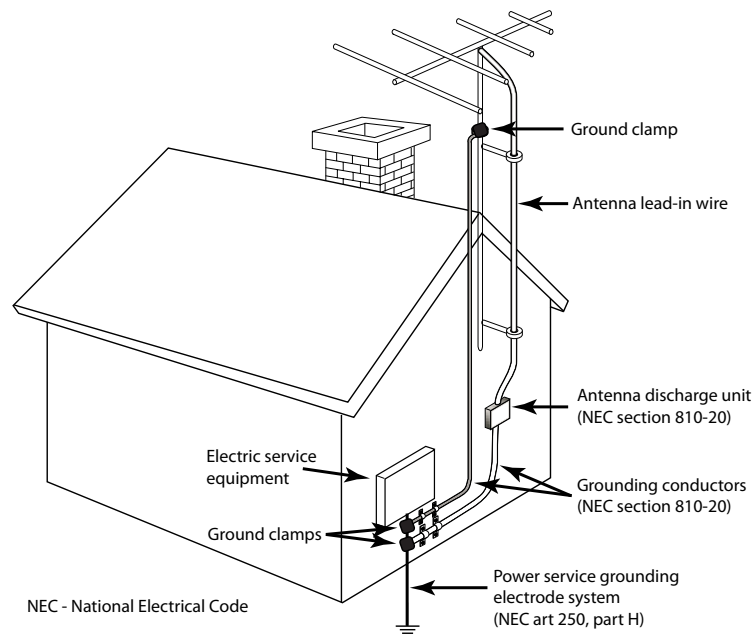
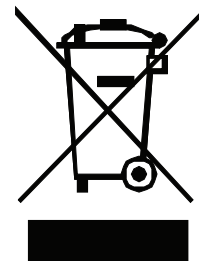
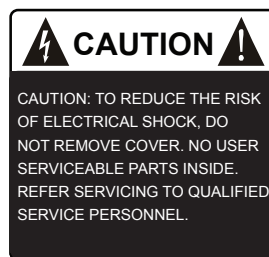


You should seek service for your TA2+ by qualified service personnel if any of the following occur:

1. The power-supply cord or the plug has been damaged.
2. Objects or liquid have fallen or spilled into the vents.
3. The unit has been exposed to rain.
4. The unit exhibits a marked change in performance.
5. The unit has been dropped, or its enclosure or chassis is damaged.

NOTE: TO COMPLETELY DISCONNECT THE TA2+ FROM THE AC POWER MAINS, DISCONNECT THE AC POWER CORD FROM THE AC RECEPTACLE.

NOTE: THE POWER CORD ON THE TA2+ MUST REMAIN READILY ACCESSIBLE AT ALL TIMES.



FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator & your body.



BasX TA2+ Stereo Integrated Amp / DAC / Tuner

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BasX TA2+

Introduction

Thank you for purchasing your new BasX TA2+.

Our BasX product line is dedicated to the philosophy that high-quality products that deliver true audiophile sound quality don't need to be expensive to buy or complicated to configure and enjoy. Every model in the BasX product line offers all of the essential features you need to maximize your listening enjoyment.

The BasX TA2+ is a high performance stereo component that includes an internal stereo FM tuner, plenty of inputs for all of your other analog and digital sources, and a powerful internal audiophile quality Class A/B stereo amplifier. Simply connect a pair of high quality loudspeakers to the TA2+ for a great sounding stereo system, or use the internal Bass Management to add a powered subwoofer, and create an even more powerful 2.1 channel system.

Analog inputs include three pairs of stereo unbalanced line level inputs, and one pair of stereo balanced line level inputs, for sources like CD players, and a high performance phono preamp that supports both moving magnet and moving coil cartridges.

Digital audio inputs, which are converted into analog by the high performance internal DAC in the TA2+, include a high-resolution asynchronous USB input, two Toslink optical S/PDIF inputs, one Coax electrical S/PDIF input, one HDMI-ARC input which can accept two-channel PCM audio directly from the ARC-enabled input on a TV, and a built-in AptX capable Bluetooth receiver.

The TA2+ can be controlled by the buttons and knob conveniently located on its front panel, or by the included high-quality, all metal, full function remote control.

The intuitive menu system makes the TA2+ simple to configure and operate, and the large bright blue VFD display on the front panel is easy to read, and shows you exactly what's going on at all times. You can simply connect the speaker outputs on the TA2+ to a pair of high-quality full range speakers, or utilize the built-in Bass Management to add a powered subwoofer, and a full set of balanced and unbalanced preamp outputs are included that can be used to connect the TA2+ to a separate power amp.

Of course, like every product in the BasX series, the BasX TA2+ includes one critical feature that you won't find in most other components in its price range: really great sound. The BasX TA2+ is a true audiophile component, designed and built by audiophiles, to deliver the kind of great sound quality that both audiophiles and music lovers expect in a high-end audio system.

Happy listening!

The Emotiva Team

About This Manual

This manual will provide you with all the information you need to get started enjoying your BasX TA2+.

We suggest that you read through the entire manual; we kept things as short and direct as possible. Even if you're an expert user, you will probably find some interesting information and useful suggestions.

If you're really in a hurry to get started, please read the Quick Start section (on page 7); you may then read the remainder of the manual at your leisure.

You may wish to keep a copy of this manual with your records, and record serial numbers or other purchase information on the Notes page at the back.

BasX TA2+

Features

- **Top quality parts and construction** - Double sided FR4 circuit boards with plated through holes, SMD construction, and high quality parts throughout, ensure that your TA2+ will deliver years of reliable service.
- **Highly optimized circuit layout** – ensures the best possible sound quality, with low distortion, wide bandwidth, and a virtually silent noise floor.
- **Sensitive FM tuner** – features 15 station presets, and a Mono mode to help make even weak stations listenable.
- **High performance phono preamp** – The built-in phono preamp delivers excellent performance, and sounds superb, with both Moving Magnet and Moving Coil cartridges.
- **Plenty of line level analog inputs for all of your analog sources** – including both balanced (XLR) and unbalanced (RCA) line level inputs, an unbalanced Home Theater Bypass input, and a high performance Phono input that supports both moving magnet (MM) and moving coil (MC) cartridges.
- **A full complement of digital inputs** – including one 24/192k asynchronous USB input, one 24/192 Coax S/PDIF input, two optical Toslink S/PDIF inputs, one HDMI-ARC input, and a built-in Bluetooth receiver.
- **Both balanced (XLR) and unbalanced (RCA) Preamp and Subwoofer outputs** – ensure perfect compatibility with the widest possible range of external power amplifiers and powered subwoofers.
- **Powerful audiophile quality Class A/B amplifier** – The powerful audiophile quality Class A/B amplifier in the BasX TA2+ delivers 135 watts/channel into 8 Ohms, or 250 watts/channel into 4 Ohms, with vanishingly low distortion, flat frequency response, and an excellent S/N ratio.
- **Pure analog signal path for analog inputs** – Analog inputs on the BasX TA2+ follow a pure analog signal path and are never converted into the digital domain. All switching and Volume and Tone control is accomplished in the analog domain. Bass Management is also done purely in the analog domain.
- **Home theater bypass** – Relay controlled home theater bypass option allows you to route the left, right, and subwoofer channels from a second audio or home theater system directly to the both the internal amplifiers and the Preamp Outputs.
- **Precision digital conversion** – Digital inputs are routed through the legendary Analog Devices AD1955 24/192 DAC for conversion into the analog domain for accurate and great sounding digital audio performance.
- **Bass, Treble, and Balance Controls** – Bass and Treble controls provide a familiar way to adjust your system to sound just the way you like it. And our unique balance control simultaneously adjusts the levels of both channels so the overall sound level in your room remains constant.

BasX TA2+

- **Large blue VFD display and flexible menu system** – The large blue VFD display is easy to read, gives you all the information you need about how your TA2+ is configured, and can be fully dimmed for intimate listening. The flexible menu system offers easy access to all important features and makes menu navigation a breeze.
- **Mute control** – allows you to mute the audio output on your system, and then return precisely to your previous listening level, at the push of a knob or the click of a button.
- **Separate headphone output with intelligent headphone level control** – A separate, high current, direct coupled headphone amplifier provides a high quality signal to drive your favorite headphones for personal listening. The intelligent level feature independently remembers the levels you set for your headphones and your main outputs.
- **Full analog Bass Management** – featuring switchable active 12 dB/octave Linkwitz-Riley high-pass and low-pass filters, with independently adjustable frequencies.
- **Subwoofer Output level trim** – A separate level Trim that enables you to adjust the level of the Subwoofer Output relative to the main speaker output by +/- 10 dB.
- **High-quality, all metal. full function remote control** – lets you operate all of the controls on the TA2+ without getting out of your favorite listening seat. Quick access buttons allow you to quickly switch between the FM Tuner and your last used digital and analog inputs.
- **Heavy steel 2RU chassis with milled aluminum face plate** - provides strength and rugged good looks.
- **Universal AC line voltage operation** - The BasX TA-2+ has a powerful linear main power supply, which is designed to operate on either 115 VAC or 230 VAC at 50/60 Hz, and automatically detects and configures itself to operate with your local line voltage.
- **Full three year warranty** - ensures that you'll be able to enjoy your BasX TA2+ for years to come.

You can find more information about the BasX TA2+, and the entire BasX line of products, on our website at:

www.emotiva.com.

Unpacking

Your BasX TA2+ was carefully packed and should reach you in perfect condition. If you notice any shipping damage or other issues when you unpack it, please contact Emotiva immediately.

Gently remove your BasX unit from the packing carton and remove all wrappings and shipping material.

It is important to save the box and all packing materials in case your BasX unit ever needs to be moved or shipped back to the factory for service.

We truly value customer feedback and would like to hear from you.

Quick Start

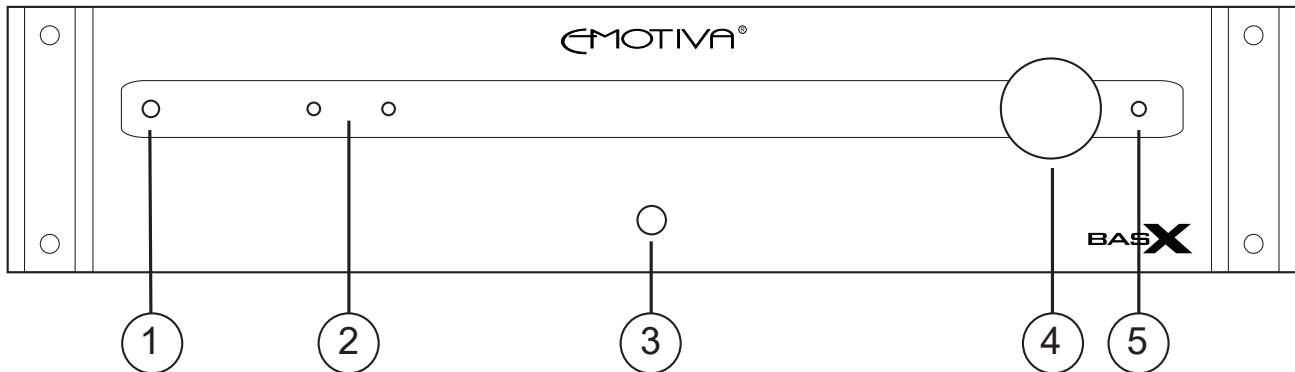
To get the most from your BasX TA2+ we urge you to read the entire manual. If you just can't wait to listen to it, this section will cover the basics you need to get started.

- Find a secure location for your BasX TA2+.
- Connect your BasX TA2+ to a set of speakers, and add a separate powered subwoofer if you like. (Refer to the Connections section of the manual for details. If you are not using a subwoofer then be sure to set both Low Pass and High Pass filters to Off.)
- If you're setting up a 2.1 channel system be sure to read the appropriate sections of the manual about how to configure your Bass Management crossover settings.
- Find some music you *really* like to listen to.
- Turn on the AC Power switch and turn up the volume a bit!
- Enjoy!

While you're enjoying your BasX TA2+, it would be a great time to read the rest of the manual to learn more about it.

BasX TA2+

BasX TA2+ Front Panel



1. Headphone Jack

Use this jack to connect a pair of high-quality headphones.

Note: The Main Outputs are muted when headphones are inserted.

Note: The intelligent level control on the TA2+ independently stores and remembers the levels for your Main Outputs and your Headphones. When you unplug your headphones, your speakers will return to their previous level, and when you reconnect your headphones, they will return to their previous level.

2. Input Buttons

In normal operation, these buttons are used to select which Input to listen to. (They perform different functions when you're in the Setup Menu; see the Setup Menu section for details.)

3. Power / Standby Button

This button is used to toggle the TA2+ between Standby and On modes. When the unit is fully Off nothing on the front panel will be illuminated. When the unit is in Standby the Standby LED will be lit amber. When the unit is On, the Standby LED will be dark, the VFD will be lit, and a small blue legend beside the Headphone Jack and Input Buttons will be illuminated.

Note: The TA2+ will only operate when the AC Power Switch on the rear panel is On. When the AC Power Switch is turned On, the Standby Indicator will light amber; at which point pressing the Standby button will turn the unit On.

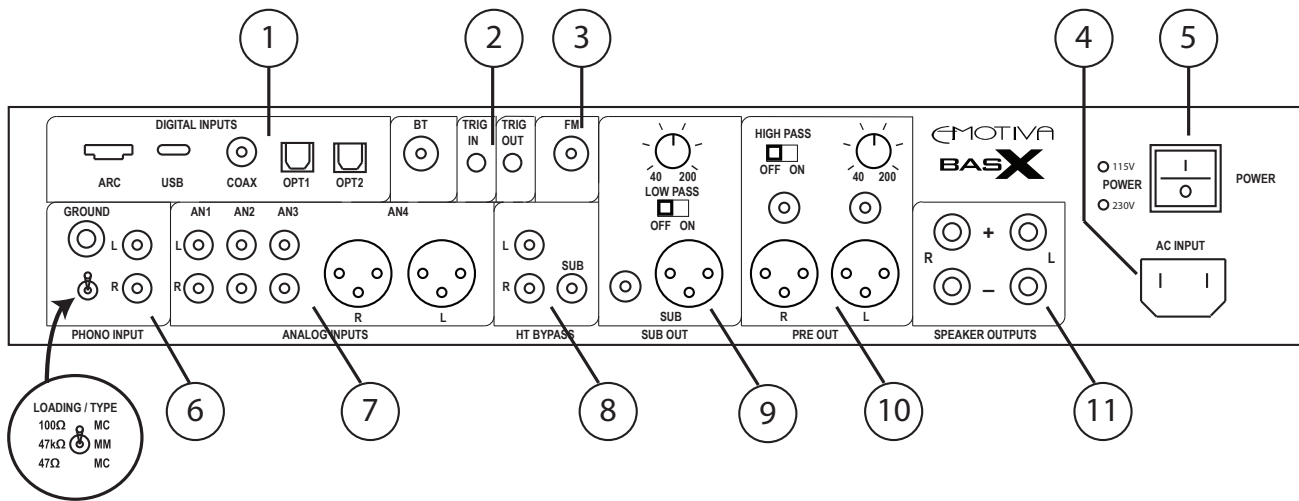
4. Volume Knob

In normal operation, this knob is used to control the Volume on the unit. (It performs slightly different functions when you're in the Setup Menu; see the Setup Menu section for details.)

5. Standby LED

When the unit is in Standby the Standby LED will be lit amber. When the unit is fully Off, or when the unit is On, the Standby LED will not be lit.

BasX TA2+ Rear Panel



1. Digital Audio Inputs

The TA2+ provides several different digital audio inputs to accommodate a variety of digital audio sources.

- The HDMI-ARC input can be connected to the HDMI-ARC *INPUT* on a smart TV to enable the TA2+ to play two-channel PCM audio directly from your TV. This will enable you to play audio generated by apps on your smart TV, or from devices connected directly to your TV, on your TA2+.

Note: *HDMI-ARC provides a way to send digital audio from a smart TV to another audio device. However, even though this is an audio OUTPUT on the TV, HDMI-ARC audio leaves the TV via one of its HDMI INPUTS so, in order to use HDMI-ARC, you need to connect an HDMI cable from the HDMI-ARC INPUT on your TA2+ to the HDMI-ARC ENABLED INPUT on your TV.*

Note: *The HDMI-ARC input on the TA2+ supports TWO CHANNEL PCM AUDIO so you may have to configure that output on your TV for "PCM 2.0" rather than "surround".*

- The asynchronous USB input accepts digital audio from a computer or other digital audio source that supports an external USB audio device. It supports standard stereo PCM digital audio up to 24/192k.

Note: *The USB audio input on the TA2+ utilizes an asynchronous USB Audio Class 2 type input. This input can be connected directly to Windows computers, and Apple computers, and any other device that has a standard USB UAC2 audio output. Windows computers MAY require you to download and install our free USB audio driver - which you can download from the Emotiva Lounge (our Forum). Apple devices should not require a driver but some Apple devices, including most that use IOS, will require the use of a special Apple USB hardware adapter.*

BasX TA2+

- The Coax input accepts PCM electrical S/PDIF digital audio signals up to 24/192k. This input is often used to connect the digital audio output from a CD player, Blu-Ray disc player, or streamer to the TA2+. This input ONLY accepts STEREO PCM audio signals.
- The Optical inputs accept PCM optical S/PDIF digital audio signals, often referred to as Toslink, up to 24/192k. These inputs are used to connect the Toslink output from a TV, disc player, or media player. These inputs ONLY accept STEREO PCM audio signals.
- The Bluetooth input (antenna) accepts audio from a Bluetooth enabled smart phone or other Bluetooth source device.

2. Trigger Input and Output

A 12 VDC signal is sent from the Trigger Output of the TA2+ to turn on other devices when the TA2+ is turned on. This signal can be used to turn on other trigger-enabled audio equipment such as a separate power amplifier.

The TA2+ will turn on when it receives a trigger signal from another trigger enabled device. The TA2+ will accept trigger signals between 5V and 12V AC or DC. (Most devices use a 12 VDC trigger signal.)

Note: A trigger signal will only turn on the TA2+ if the TA2+ is in Standby mode - with the rear panel AC Power Switch in the On position.

3. FM Antenna Input

Connect an FM radio antenna to this input to receive FM radio.

Note: Your BasX TA2+ was supplied with a simple wire FM antenna. You will get the best reception if this wire is stretched vertically and above any metal obstructions. For better reception, especially in fringe reception areas, this can be replaced with a more powerful directional antenna.

4. Power Cord Receptacle

Use this receptacle to attach the included power cable for the TA2+. If you prefer you may substitute any high quality power cable that is rated to supply sufficient current and is terminated with the appropriate IEC connector.

5. AC Power Switch

Switches the main AC power to the TA2+ On and Off. When this switch is Off, no controls operate, and the TA2+ cannot be turned On from the front panel Standby Button or remote control.

6. Phono Input

Connect the Left and Right outputs from your turntable to the Phono Inputs on the TA2+. If your turntable provides a separate ground connection connect it to the Ground lug.

Set the Loading / Type Switch to the appropriate setting for your phono cartridge.

For Moving Coil cartridges you may select a load impedance of either 47 Ohms or 100 Ohms.

For Moving Magnet cartridges the load impedance is fixed at the standard 47k Ohms.

Note: Some turntables may not provide a separate ground lead. You may also find that, even on some turntables that provide a ground lead, you get less hum when it is disconnected.

Note: The Phono Input is intended to accept the low-level output from a moving magnet or moving coil phono cartridge, and includes RIAA phono equalization. DO NOT connect a line level source to this input or the sound will be distorted and you may damage the Phono Input. If your turntable has a built-in phono preamp, and provides a line level output, then you should connect it to an Analog Input instead.

Note: The manufacturers of some phono cartridges may instruct you to set the gain switch to MM for a “high output moving coil cartridge”; always follow manufacturer’s recommendations.

7. Analog Inputs (Line Level Stereo Inputs)

The Analog Inputs on the TA2+ will accept line level inputs from CD players, streamers, and other line level stereo analog sources. If your source offers both unbalanced (RCA) and balanced (XLR) connections, balanced connections are normally preferred, as they are less susceptible to noise, especially if the cables are long.

8. Home Theater Bypass Analog Input

The Home Theater Bypass input on TA2+ accepts a 2.1 channel line level unbalanced analog input. When Home Theater Bypass is selected from the TA2+ menu this signal is routed directly to both the internal amplifiers and the Sub Output and Preamp Output on the TA2+.

Note: The Home Theater Bypass inputs on the BasX TA2+ are routed directly to the outputs and BYPASS BOTH THE VOLUME CONTROL AND BASS MANAGEMENT ON THE TA2+.

Note: The Home Theater Bypass input on the TA2+ is unbalanced. Therefore, while it is routed directly to the unbalanced outputs, it will go through the minimum circuitry necessary to convert that signal to a balanced signal before being routed to the balanced outputs.

9. Subwoofer Output (With Active Low-Pass Filter)

This output allows you to connect a powered subwoofer to the TA2+. When the Low Pass switch is set to Off a full range summed signal is sent directly to the Subwoofer Output. Setting this switch to On engages an analog 12 dB/octave low-pass filter whose rolloff frequency can be set to anywhere between 40 Hz and 200 Hz.

10. Preamp Output (With Optional Active High-Pass Filter)

This is a line level Preamp Output which you can connect to a separate power amplifier to power your main left and right speakers. This output carries the same preamp signal that is used to drive the internal amplifiers in the TA2+.

When the High Pass switch is set to Off this output delivers a full range stereo signal. Use this option if you don't have a subwoofer. Setting this switch to On engages an analog 12 dB/octave high-pass filter whose cutoff frequency can be set to anywhere between 40 Hz and 200 Hz.

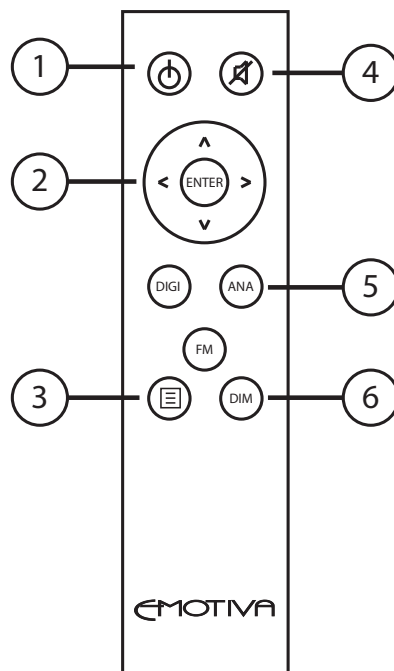
11. Speaker Outputs

This is the main output you will use to connect a pair of speakers to the power amplifier outputs on the TA2+. Although this output is always active, if you wish to use the TA2+ as a preamp, you are not required to connect speakers.

Note: THE HIGH-PASS FILTER FOR THE PREAMP OUTPUT ALSO CONTROLS THE AUDIO SIGNAL BEING SENT TO THE MAIN AMPLIFIER SECTION OF THE TA2+. IF THE HIGH-PASS SWITCH IS SET TO ON THEN THE SAME 12 DB/OCTAVE HIGH-PASS FILTER WILL BE APPLIED TO THE SIGNAL BEING SENT TO THE MAIN AMPLIFIERS.

Note: If you plan to use the power amps in the TA2+ to power your main speakers, and connect a powered subwoofer to the Subwoofer Output, and you plan to allow the TA2+ to control Bass Management, you will typically want both the Low Pass and High-Pass Switches set to On, and the Frequency controls on both set to the same frequency.

BasX TA2+ Remote Control



1. Power Button

This button is used to toggle the TA2+ between Standby and On modes.

Note: The Remote Control will only operate when the AC Power Switch on the rear panel of the unit is in the On position.

2. Navigation Ring / Buttons

In normal operation, pressing the Left and Right arrows will switch Inputs, and the Up and Down arrows will raise and lower the Volume.

Note: When the Setup Menu is engaged, the arrows are used for menu navigation.

Note: When the Tuner Input is selected the Left and Right arrows are used for tuning.

3. Menu Button

This button toggles the Setup Menu on and off.

4. Mute Button

Press this button to mute the audio output; press it again to return the audio to its previous level.

5. Input Select Buttons

Digi - The first time this button is pressed it selects the last used Digital Input. Each time you press it after that will sequence through the available Digital Inputs.

Ana - The first time this button is pressed it selects the last used Analog Input. Each time you press it after that will sequence through the available Analog Inputs.

FM - The first time this button is pressed it selects the FM Tuner and the last FM Preset that was used. Each time you press it after that will sequence through the available FM Presets.

SPECIAL NOTE: Tuning FM Stations and Setting FM Presets Using the Remote Control

The BasX TA2+ has a special feature that allows you to directly tune FM stations, and to easily assign stations to FM Presets, using the remote control. This feature is activated when you use the FM BUTTON on the remote control to switch to the Tuner input.

Once you have selected the Tuner Input by pressing the FM BUTTON on the remote control...

- Pressing the FM Button repeatedly will sequence through the available FM Presets.***
- Pressing the Left navigation button will cause the Tuner to seek DOWN to the next station.***
- Pressing the Right navigation button will cause the Tuner to seek UP to the next station.***
- Pressing the ENTER button on the remote control will cause the currently tuned station to be saved to the currently selected FM Preset.***

Note: THIS FEATURE CAN ONLY BE ACCESSED BY USING THE REMOTE CONTROL.

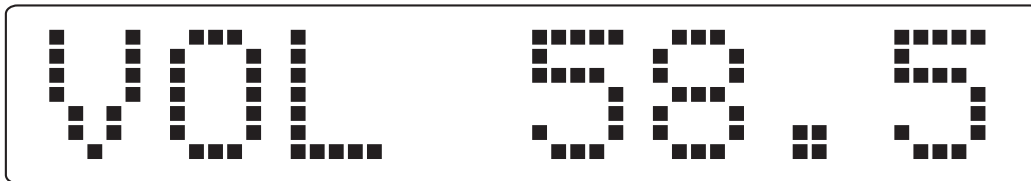
The Volume control and Mute function on the remote control and the front panel, and the Input buttons on the front panel, will all continue to function normally.

6. Dim Button

This button sets the brightness of the display by sequencing through the available steps. (Steps are 0%, 20%, 40%, 60%, 80%, 100%.)

WARNING: The TA2+ remote control uses some codes which conflict with the control codes used by our XMC and RMC processors. Using a TA2+ remote control within operating range of an XMC or RMC processor, or using a processor remote control within range of a TA2+, may result in unexpected responses from the other unit.

BasX TA2+ Display and Menu System



The BasX TA2+ feature a large, bright, easy to read VFD (vacuum fluorescent display) which keeps you informed of the current status at all times.

In normal operation, this display shows the currently selected Input.

When you change the Volume setting, the display switches to display the Volume setting for several seconds, then returns to showing the currently selected Input. The display also sometimes momentarily displays other useful information - like the sample rate of the signal coming into a digital input when you select it.

When the TA2+ is turned on, it always returns to same Input and Volume setting as when it was turned off. If you turn the TA2+ Off while it's in the Setup Menu, when you turn it on it will start up in normal operating mode.

When you turn the unit on, the display will show a welcome message, then briefly display the Volume setting that was current when the unit was turned off. The Volume setting will then return to zero and ramp up to the previous Volume setting that was shown. The display will then switch to showing the currently selected Input.

The BasX TA2+ also has a Setup Menu, which is used to configure various system options, like the brightness of the display, to configure and access the Tuner Presets, and to adjust the Bass, Treble, and Balance settings. The Setup Menu is accessed by pressing and holding the Volume knob on the front panel, or by pressing the Menu Button on the remote control. Pressing the Volume knob briefly, or pressing the Mute button on the remote control, toggles the Mute function on and off.

Note: THE SETUP MENU WILL OFFER DIFFERENT OPTIONS DEPENDING ON WHICH INPUT IS SELECTED WHEN YOU ENTER THE MENU SYSTEM. TUNER OPTIONS will ONLY appear in the Setup Menu if the Tuner Input is selected when you enter the Menu System.

Basic Controls and Operation

Refer to pages 9 - 15 for the location of the controls and buttons on the BasX TA2+ and details about how each control operates..

The first thing to do after connecting your BasX TA2+ is to turn the rear panel Power switch On. Once you turn on the Power switch, the Standby LED will illuminate amber to indicate that your unit is now in Standby mode.

Once your unit is in Standby mode you may turn it fully On by pressing the Power button on the remote control or the Power / Standby button on the front panel. When you press either button the unit will go through its startup sequence:

- the Standby LED will extinguish
- the front panel VFD display will first display the Emotiva logo
- the VFD will then display the name of the unit
- the VFD will then display the currently selected input
- the VFD will then display the Volume setting that was stored when it was turned Off
- the Volume display will then reset to 0 and then ramp up to the stored Volume setting
- finally the VFD display will return to displaying the name of the currently selected Input

The lowest Volume setting on the BasX TA2+ is 00.0

The maximum Volume setting on the BasX TA2+ is 80.0

The Volume control moves in steps of 0.5 (21.0, 21.5, 22.0, etc.)

Once the unit has completed its power up sequence you may select which input to listen to by:

- using the Left / Right Input Buttons on the front panel
- using the Left / Right navigation buttons on the remote control
- using the Analog, Digital, and FM direct access buttons on the remote control

You may turn the Volume Up or Down on your BasX TA2+ by using either the front panel Volume knob or the Up and Down navigation buttons on the remote control. As you change the Volume the current Volume setting will be displayed on the front panel VFD. The VFD will return to displaying the currently selected Input a few seconds after the Volume stops changing. If the front panel VFD is fully dimmed, it will illuminate to display the Volume or Input when you change them, then switch off again after a few seconds.

The BasX TA2+ also has an audio Mute function. Press the Volume knob or the Mute button on the remote control to temporarily mute the audio. The VFD will flash "mute" to indicate that the unit is muted. When the unit is muted, pressing either the Volume knob or button again will toggle the Mute mode off.

To return the unit to Standby mode simply press the Power button on the remote control or the Power / Standby button on the front panel.

Note: It's OK to turn the unit off using the Power switch without first going to Standby mode.

BasX TA2+

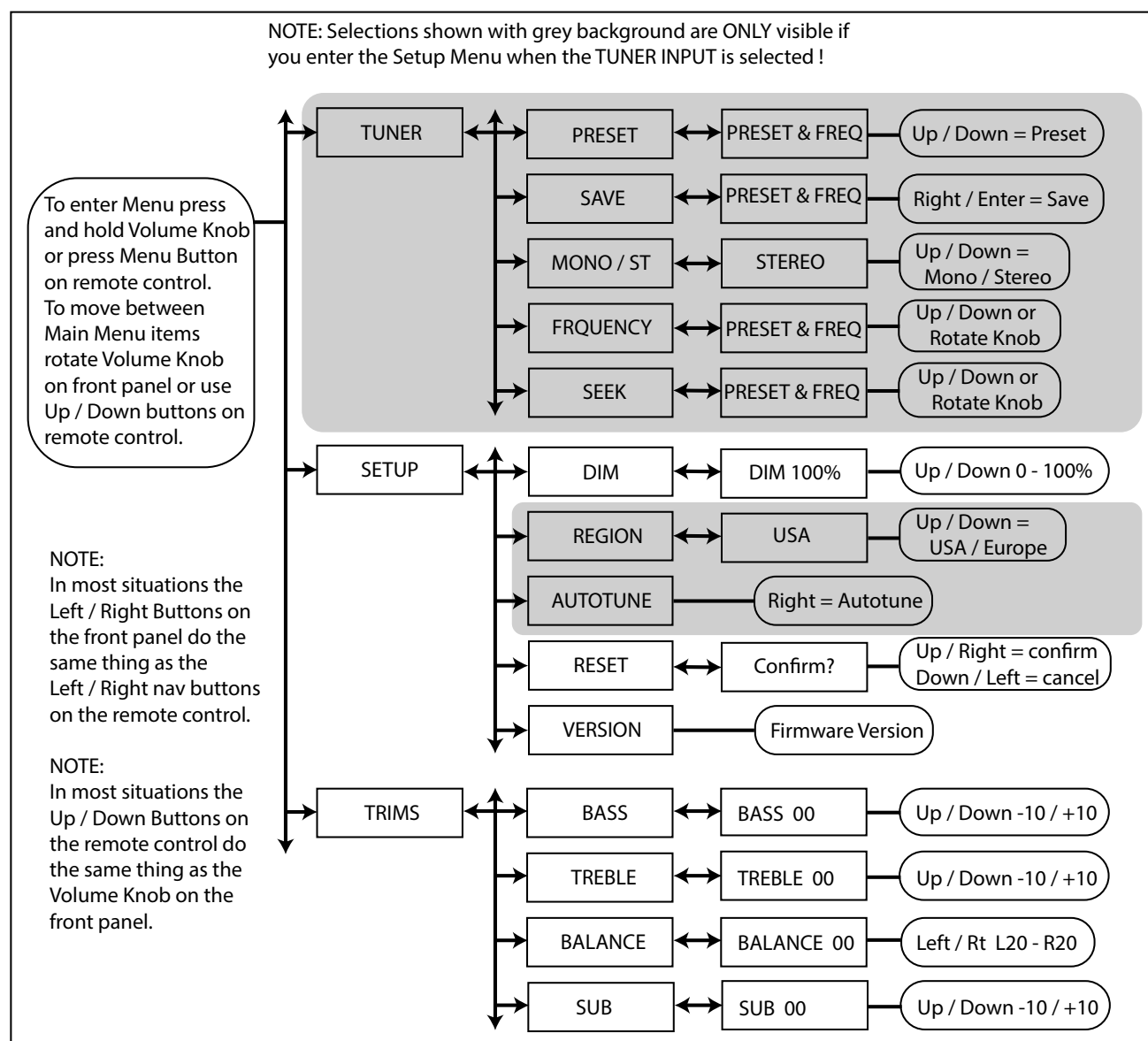
The BasX TA2+ Menu

The Menu system in the BasX TA2+ may be entered either by pressing the Menu Button on the remote control or by pressing and holding the Volume knob. The options available in the Menu will be different depending on whether the FM Tuner Input is selected when you enter the Menu system.

The following Menu Tree shows all of the Setup Menu options.

The options in the areas shown with a shaded background will ONLY be visible if you enter the Menu System while the Tuner Input is selected.

TA2+ Setup Menu



BasX TA2+

Refer to the Menu Tree on page 17 while reading the following section.

To use the Menu System with the remote control:

- enter the Menu System by pressing the Menu button
- navigate the Menu System using the Up / Down / Left / Right buttons on the Navigation Ring
- press the Menu button again to exit the menu
- (you can also exit the Menu System using the Left navigation button)

To use the Menu System with the front panel controls:

- enter the Menu System by pressing and holding the Volume knob for several seconds
- navigate the Menu System using the Left / Right Input buttons for left / right movement and using the Volume knob for up / down movement
- exit the Menu System by pressing and holding the Volume knob for several seconds
- (you can also exit the Menu System using the Left Input button)
- (there is also an automatic timeout that will exit the Menu System after several seconds)

Note: You will have different menu choices depending on which Input is selected when you enter the Menu System. The Tuner Section of the top menu, and the Region and Autotune Options in the Setup Section of the menu, will ONLY be visible if you enter the Menu System while the TUNER INPUT is selected.

The Trims Section

The Trims Section of the Menu System gives you access to the Bass, Treble, Balance, and Sub trims.

Once you enter the Trims Section you may select either Bass, Treble, Balance, or Sub.

Once the item you wish to view or change is selected:

- press the Right button to display the current setting for that item
- once the current value is displayed you may adjust it
- adjust the item by using either the Up / Down arrow buttons or the Volume knob
- when you have completed your adjustment return to the Trims Section using the Left arrow
- (your new setting will be retained when you return to the Trims Section)

Bass, Treble, and Sub level values range from -10 to +10.

Balance - Allows you to adjust the Balance settings range from L20 to R20.

The Setup Section

The Setup Section of the Menu System gives you access to the Dim, Reset, and Version options.

In addition the Setup Section also includes the Region and Autotune tuner options.

(These options will only be visible if the Tuner Input was selected when you entered the Menu.)

Once you enter the Setup Section you may select the item you wish to view or adjust.

Once the item you wish to view or change is selected:

- press the Right button to display the current setting for that item
- once the current value is displayed you may adjust it
- adjust the item by using either the Up / Down arrow buttons or the Volume knob
- when you have completed your adjustment return to the Setup Section using the Left arrow
- (your new setting will be retained when you return to the Setup Section)

BasX TA2+

Dim - Allows you to configure the brightness of the front panel VFD display.
(Options include 0%, 20%, 40%, 60%, 80%, and 100%.)

Reset - Resets all configuration settings and Tuner Presets to their factory default settings.
(After selecting this option you will be prompted to confirm your choice.)

Version - Displays the current firmware version.

Region - Configures the FM tuner for use in the USA or European region.
(Pre-emphasis and de-emphasis are applied to the FM audio signal to reduce noise. There are two standards, and you will get the most accurate sound reproduction if you pick the correct one for your area. For the USA and Canada, select USA; the Europe setting is correct for most other areas... or just select the one that sounds the best to you.)

Autotune - When you select this option the FM Tuner in your unit will scan through the FM frequency band and preload as many strong stations as it can detect into the FM tuner's 15 station presets. After pressing the Right button to start the Autotune process, it will proceed and complete automatically.

Note: Using Autotune will ERASE your current FM Station Presets and replace them with the stations found by the signal scan.

The Tuner Section

The Tuner Section of the Menu System gives you access to the functions necessary to program and configure the FM Tuner Presets. (The entire Tuner Section will ONLY be visible if the Tuner Input was selected when you entered the Menu System.)

Preset - Allows you to choose which Tuner Preset station to listen to.

Press the Right button to see the currently selected Preset; use the Volume knob or Up / Down arrow buttons to change to a different Preset; use the Left Button to exit when you're done.

Save - Allows you to save the currently selected frequency to a Tuner Preset.

Press the Right button to select Save; the current Frequency and Preset will be shown. Use the Volume knob or Up / Down buttons to select the Preset you wish to save; the currently selected combination of Frequency and Preset will be continuously displayed. Press the Right button to save the displayed Frequency to the displayed Preset.

Mono/St - Instructs the tuner to play a weak FM station in monaural.

Because of the way FM broadcasts are encoded, stereo FM broadcasts often exhibit an unacceptably high amount of background noise if the signal is too weak. If this occurs, switching the decoder to monaural mode will often improve the signal quality significantly. This may enable you to receive more stations in "listenable quality".

Press the Right button to enter the Menu item, use the Up / Down buttons or Volume knob to select Mono or Stereo; use the Left Button to exit when you're done.

Note: The Mono/St setting ONLY affects stereo FM broadcasts. It has no effect on monaural FM broadcasts and does NOT convert other types of stereo audio inputs to monaural.

BasX TA2+

Frequency - Allows you to manually tune your favorite FM station.

Press the Right button to select Frequency; the current Frequency and Preset will be shown. Use the Volume knob or Up / Down buttons to select the Frequency; the currently selected combination of Frequency and Preset will be continuously displayed.

Seek - Instructs the FM Tuner to scan the FM band looking for the next strong station.

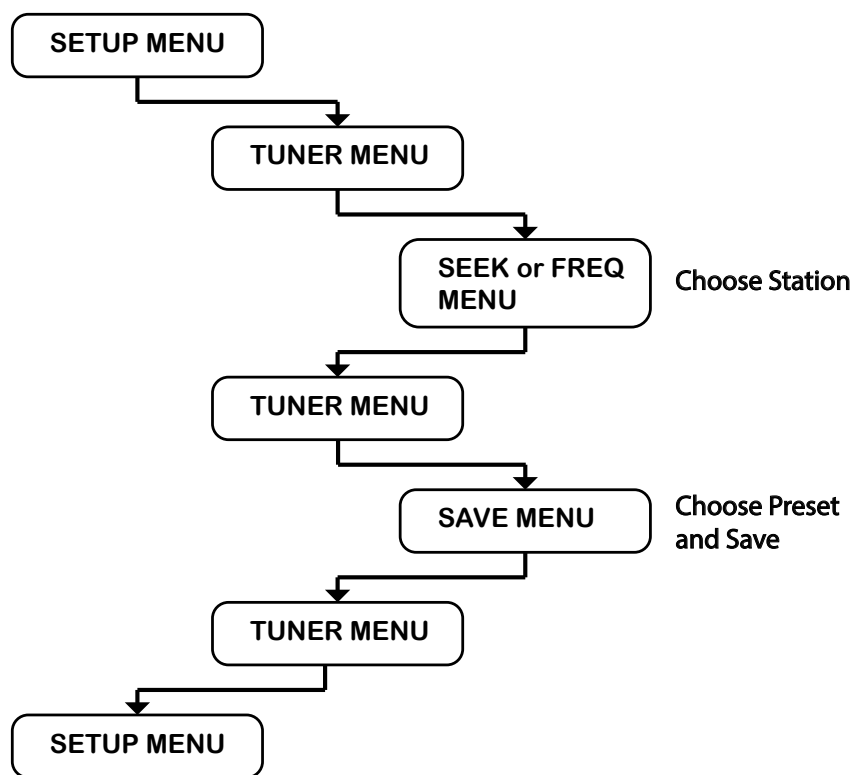
Press the Right button to select the Seek function; then use the Up / Down buttons, or rotate the Volume knob to the left or right, to command the FM Tuner to seek up or down to the next strong station. The Tuner will stop at the next strong station it detects.

Using The FM AutoTune Feature

When you select this option the FM Tuner in your unit will scan through the FM frequency band and preload as many strong stations as it can detect into the FM tuner's 15 station presets. After pressing the Right button to start the Autotune process, it will proceed and complete automatically.

Note: Using Autotune will ERASE your current FM Station Presets and replace them with the stations discovered by the signal scan.

Configuring FM Station Presets

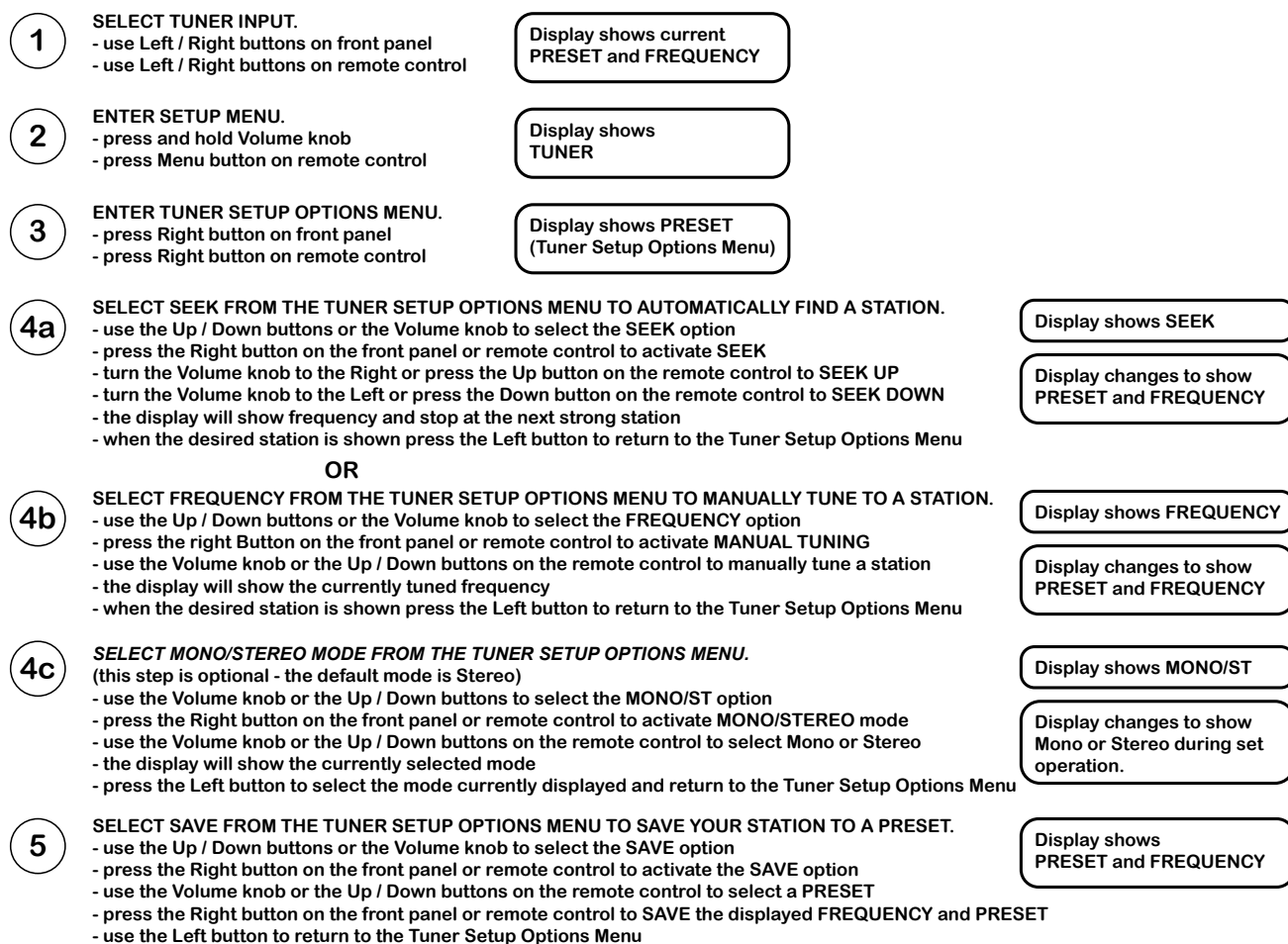


BasX TA2+

The procedure to configure FM Tuner Presets on the BasX TA2+ is relatively straightforward.

- 1) Enter the Tuner Section of the Setup Menu.
- 2) Select the FM station you wish to program (using either the Frequency or Seek option).
 - select Frequency and manually tune the Frequency of the station you wish to program
 - select Seek and allow the Seek function to find a strong station for you
 - return to the Tuner Section of the Menu after selecting your station
- 3) Select the St/Mono option (if you have chosen a weak noisy station).
 - set the St / Mono option to Mono to set the station you chose to monaural reception
- 4) Select the Save option.
 - press the Right arrow or Right button to display the current Frequency and Preset
 - use the Volume knob or Up / Down arrows to select the FM Preset you wish to save
 - press the Right arrow again to SAVE the currently shown Preset and Frequency combination

The following info-graphic explains the process in more detail...



NOTE: Choices must be entered promptly.

There are time-outs that will return you to the Main Menu if you hesitate too long between choices.

NOTE: The TUNER SETUP OPTIONS MENU will ONLY appear if you enter the SETUP MENU while the TUNER is the selected input.

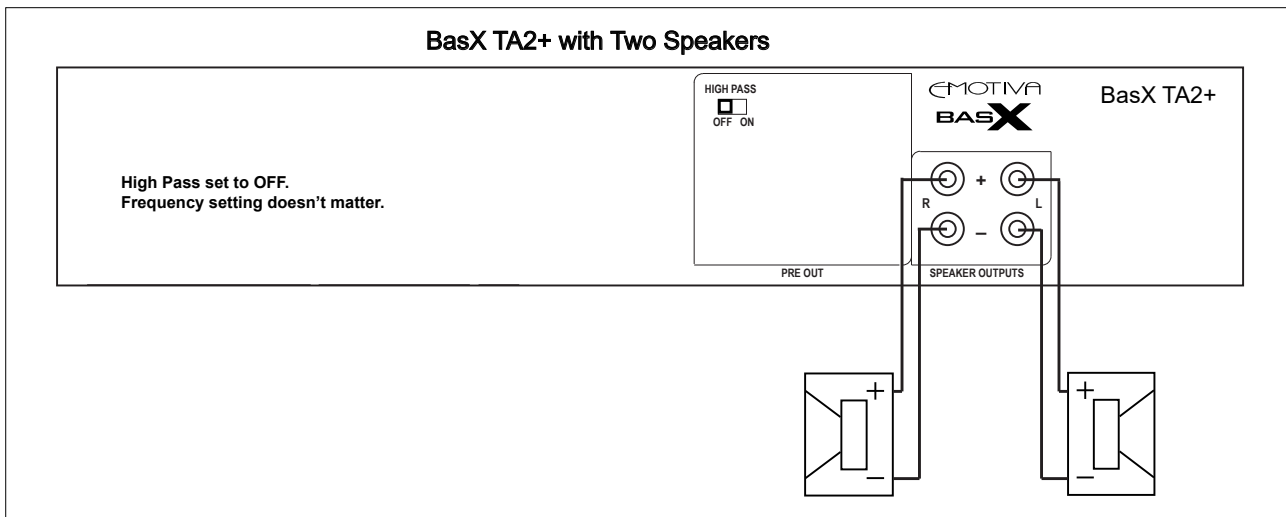
NOTE: The MONO/ST option allows you to force weak stereo stations to play in monaural - which may improve the S/N ratio on some weak stations.

BasX TA2+

Connections

Connecting speakers to your BasX TA2+

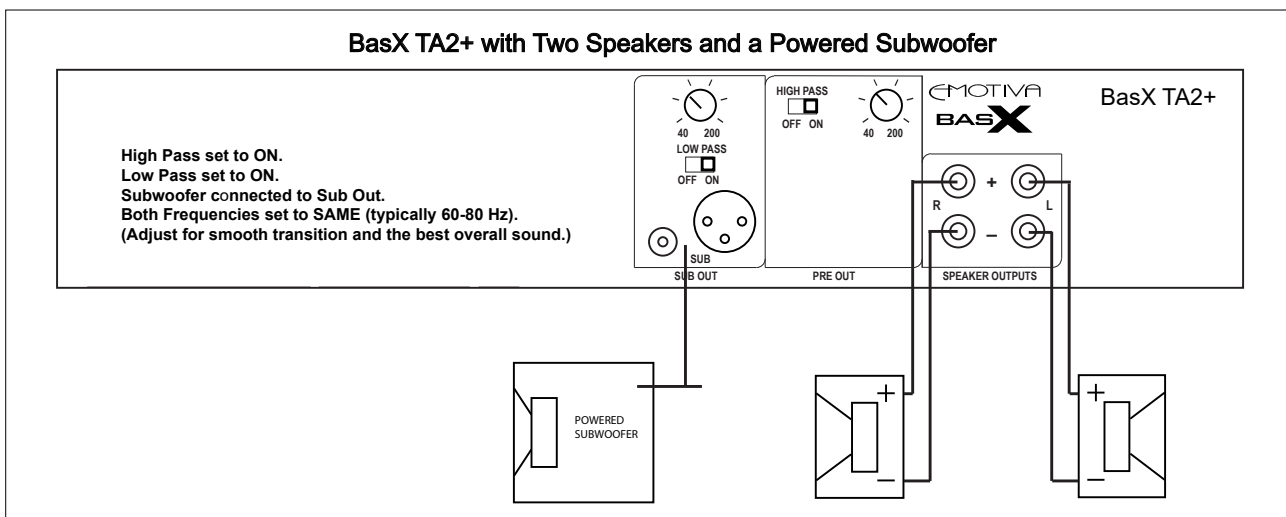
To connect your TA2+ to a pair of full range speakers simply connect the speakers to the Left and Right Speaker Outputs on the TA2+. Set the High Pass switch on the TA2+ to Off.



Connecting speakers and a subwoofer to your BasX TA2+

To connect your TA2+ to a pair of speakers and a subwoofer, connect the speakers to the Left and Right Speaker Outputs on the TA2+, and connect the Subwoofer Output to the input on your powered subwoofer. If your subwoofer has an LFE input then use that. If not, then use a normal input, and set the crossover frequency on your sub to its highest setting. Set both the Low Pass and High Pass filters On and to the same frequency. Use the Sub Level Trim, or the Volume setting on your subwoofer, to adjust the sub level relative to your main speakers.

Note: The active Bass Management High Pass filter is applied to both the Preamp Output and the signal fed to the internal amplifiers in the TA2+ when the High Pass switch is set to On.



BasX TA2+

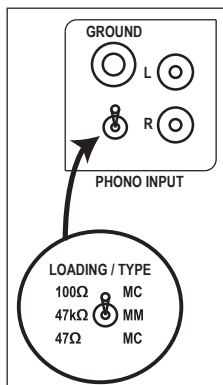
Connecting a turntable to your BasX TA2+

If you have a turntable with a direct output, then it should be connected to the Phono Input on the TA2+, and the Phono Input Loading / Type Switch should be set for the type of cartridge you have. A standard load of 47 kOhms is used for moving magnet cartridges. A load impedance of either 47 Ohms or 100 Ohms may be selected for moving coil cartridges. If your turntable has a separate ground wire, connect it to the Phono Input Ground Lug.

Note: Most moving coil cartridges will deliver the most accurate sound when you use the impedance that is recommended by the manufacturer. However, each setting will sound slightly different, so feel free to choose the one you prefer. If your turntable has a separate ground wire, connect it to the Phono Input Ground Lug.

Note: The manufacturers of some cartridges may specifically instruct you to use unusual settings; for example, some moving coil cartridges may specify that you use the “moving magnet” setting for proper output level. Always follow the manufacturer’s recommendations.

Note: Some turntables have a built-in phono preamp and a line-level output. If so, then their line level output should be connected to a LINE LEVEL input on the TA2+.



Line Voltage

The BasX TA2+ will operate on either 115 VAC or 230 VAC at 50 Hz or 60 Hz and will automatically detect and configure itself for your local line voltage.

Care and Maintenance

Periodic Maintenance

Your BasX TA2+ requires no periodic maintenance or calibration.

Cleaning your TA2+

- If necessary, the TA2+ should be cleaned gently with a soft rag.
- If something sticky gets on the front panel or case of the TA2+, it should be cleaned with a mild cleaning solution applied to a soft rag, followed by wiping with a clean rag dampened with plain water and drying with a soft dry rag or cloth.

Note: DO NOT spray water or cleaning solution directly onto the TA2+ or into the vents.

Specifications

Analog Inputs

- 3 pairs – unbalanced (RCA) stereo analog line level inputs (Analog 1 thru Analog 3).
- 1 pair – balanced (XLR) stereo analog line level inputs (Bal).
- 1 pair – stereo phono inputs (switchable; moving magnet or moving coil).
- 1 tuner – FM (with external antenna input; 15 station presets).

Digital Inputs

- 1 – digital coax (S/PDIF); stereo; 24/192k.
- 2 – digital optical (Toslink); stereo; 24/192k.
- 1 – digital USB (DAC input); stereo; 24/192k.
- 1 – Bluetooth receiver; Bluetooth 5, AptX and AAC (antenna included).
- 1 – HDMI-ARC input; stereo (PCM 2.0)

Preamp Outputs

- 1 pair – unbalanced (RCA) stereo line level Preamp Outputs.
- 1 pair – balanced (XLR) stereo line level Preamp Outputs.
(Both outputs are fed by a switchable analog 12 dB/octave high-pass filter, whose cutoff frequency can be set to anywhere between 40 Hz and 200 Hz.)
- 1 – unbalanced (RCA) line level summed Subwoofer Output.
- 1 – balanced (XLR) line level summed Subwoofer Output.
(Both outputs are fed by a switchable analog 12 dB/octave low-pass filter, whose cutoff frequency can be set to anywhere between 40 Hz and 200 Hz.)
- 1 – 1/8" (3.5mm) front panel stereo headphone output.

Speaker Outputs

- 1 pair - audiophile grade five way binding posts which accept banana plugs, spade lugs, or bare wires. To enable Bass Management on the Speaker Outputs, set the High Pass filter to On, and choose the filter cutoff frequency with the associated adjustment knob. These controls affect both the Preamp Outputs and the signal that is routed to the internal amplifiers in the TA2+ equally. Bass Management is implemented via analog 12 dB/octave high-pass filters, whose cutoff frequency can be set to anywhere between 40 Hz and 200 Hz.

Controls and Indicators

Power – rocker switch; rear panel.

Standby – front panel push button.

Two front panel push-buttons – Input Select; menu operation.

Front panel digital encoder knob – Volume; Tuning; menu operation.

VFD Display – high visibility blue alphanumeric VFD display (dimmable).

LEDs – amber Standby LED; blue illuminated legend for Input buttons.

Remote Control

Compact, all metal, full-function infrared remote control
(which is powered by a single CR2025 button-cell battery).

Trigger Input and Output

1 - 12 VDC Trigger Output – delivers 12VDC trigger signal when unit is On.

1 - Trigger Input – accepts inputs between 5V and 12V AC or DC.

Line Level Analog Performance

Maximum output level (balanced and unbalanced outputs): 4 VRMS.

Frequency response: 20 Hz to 50 kHz +/- 0.25 dB.

THD+noise: < 0.005% (A-weighted).

IMD: < 0.004% (SMPTE).

S/N ratio: > 120 dB.

Crosstalk: < 88 dB.

Phono Input Analog Performance

Frequency response (moving magnet and moving coil): 20 Hz to 20 kHz; ref standard RIAA curve.

THD+noise: < 0.010% (moving magnet; A-weighted); < 0.04% (moving coil; A-weighted).

Gain (ref unity gain on main inputs; at 1 kHz): 44 dB (moving magnet); 55 dB (moving coil)

S/N ratio: > 78 dB (ref 5 mV; moving magnet); > 58 dB (ref 0.5 mV; moving coil).

Load Impedance: 47 kOhms (moving magnet); 47 Ohms or 100 Ohms (moving coil)

Digital Performance

Frequency response: 20 Hz to 20 kHz +/- 0.1 dB (44k sample rate).

Frequency response: 20 Hz to 80 kHz +/- 1 dB (192k sample rate).

THD+noise: < 0.003% (A-weighted; all sample rates).

IMD: < 0.007% (SMPTE).

S/N ratio: > 110 dB.

BasX TA2+

Amplifier Performance

135 watts RMS / channel; into 8 Ohms, both channels driven, 20 Hz - 20 kHz, THD < 0.02%.

250 watts RMS / channel; into 4 Ohms, both channels driven, at 1 kHz, THD < 1%.

Minimum load impedance: 4 Ohms; Rated impedance: 8 Ohms.

Frequency response: 20 Hz to 20 kHz +/- 0.15 dB; 5 Hz to 80 kHz +0 / -2.1 dB.

S/N ratio: 116 dB.

Gain: 29 dB.

Power Requirements

115 VAC or 230 VAC @ 50 / 60 Hz (automatically detected).

The BasX TA2+ has a linear main power supply that accepts either 115 VAC or 230 VAC.

Dimensions

TA2+: 17" wide x 3-3/8" high (without feet) x 15-1/2" deep (without connectors).

TA2+: 17" wide x 4" high (including feet) x 15-1/2" deep (without connectors).

Weight

TA2+: 25 lbs (unboxed).

Add 6 lbs for boxed weight.

Emotiva Audio Corporation Three-Year Limited Warranty

What does this warranty cover?

Emotiva Audio Corporation (Emotiva) warrants its products against defects in materials and workmanship. This warranty, and all rights provided hereunder, is limited to the original owner. In the event the original owner transfers ownership of the Product prior to the expiration of the applicable term described below, this Warranty shall terminate immediately upon such transfer of ownership.

This Warranty only applies to Products purchased directly from Emotiva or any of its Authorized Dealers or International Distributors.

Emotiva warrants any replacement product or part furnished hereunder against defects in materials and workmanship for the longer of the following: (i) the amount of time remaining under the original warranty, or (ii) 120 days from your receipt of the repaired or replaced product. The duration described in this paragraph is hereinafter referred to as the “Term”.

TO THE FULLEST EXTENT PERMITTED BY LAW, ALL IMPLIED WARRANTIES RELATED TO THE ORIGINAL PRODUCT AND ANY REPLACEMENT PRODUCT OR PARTS (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE EXPRESSLY LIMITED TO THE TERM OF THIS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

The original owner must make a claim within the Term of the Warranty. A claim shall not be valid (and Emotiva has no obligation related to the claim) if it is not made within the Term and if it is not made in strict compliance with the requirements of the “How do you get service?” section.

How long does this coverage last?

This warranty commences on the date of retail purchase by the original retail purchaser and runs for a period of three years thereafter, with the exception of accessories, cables, and remote controls*. This warranty is non-transferable to any person that owns the warranted product during the Term. Emotiva warrants any replacement product or part furnished hereunder against defects in materials and workmanship for the longer of the following: (i) the amount of time remaining under the original warranty, or (ii) 120 days from your receipt of the repaired or replaced product. The duration described in this paragraph is hereinafter referred to as the “Term”.

*Accessories, cables, and remote controls have a one-year warranty to the original owner.

What will Emotiva do?

Emotiva will, at its option, either: (i) repair the product, or (ii) replace the product with a new consumer product which is identical or reasonably equivalent (in Warrantor's sole discretion) to the product. In the event Warrantor, in its sole discretion, is unable to replace or repair the Product or it is not commercially practicable to do so, then: (i) if the claim was submitted during the first 365 days of the Term, Warrantor shall refund to you the purchase price that you paid for the Product; and (ii) if the claim was submitted after the first 365 days of the Term, Emotiva shall issue you a credit equal to the purchase price that you paid for the product. The credit may only be used for the purchase of merchandise from Emotiva, and cannot be used for freight charges.

When a Product or part is repaired or replaced, any replacement item becomes your property and the replaced item becomes Emotiva's property. When a refund or credit is given, the Product for which the refund or credit is provided must be returned to Emotiva and becomes Emotiva's property.

What is not covered by this warranty?

This warranty does not apply: (i) to damage caused by use with products not manufactured by Emotiva, where the non-Emotiva product is the cause of the damage; (ii) to damage caused by service or maintenance performed by anyone who is not a representative of Emotiva; (iii) to damage caused by accident, abuse, misuse, flood, fire, earthquake or other external causes; (iv) to a product or part that has been modified after its retail purchase, where the modification caused or contributed to the damage; (v) to consumable parts, such as batteries or failure of or damage to the Product caused by batteries; (vi) if any Emotiva serial number has been removed or defaced on the product; (vii) glass or plastic panels, cabinetry, trim or other appearance items; (viii) cosmetic wear or damage to remote controls by user.

EMOTIVA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR RELATED TO ANY DEFECTS IN OR DAMAGES TO ITS PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

How do you get service?

In order to make a claim under the Warranty, you must:

1. Call a customer service representative at 1-615-790-6754 or e-mail to support@emotiva.com. You must provide a description of your problem, the serial number of the Product for which the warranty claim is being made, and the original purchase date.
2. Then, you will be provided with a warranty service authorization number ("WS").

3. Next, you must ship the Product to the following address, with the WS written in large, bold numbers on the outside of the box, and with the letters "WS" written before the number, for example: WS1234. Parcels arriving without a WS number on the outside of the box will be refused. The customer pays for the shipping to Warrantor. Warrantor pays for the shipping back to the customer within the continental United States only. Customer is responsible for shipping charges on all other warranty claims.

**Emotiva Audio Corporation
Attn: Repair Department
139 Southeast Parkway Court
Franklin, TN 37064**

Units will be refused by Emotiva for the following:

Product was sent without the WS#
Product was sent with inadequate packaging.
Product was damaged in transit.
Product was shipped collect for shipping charges.

How does state law apply?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

What if my product is damaged on the way to you?

Emotiva is not liable for damages that may incur while an item is in transport to us. Please purchase insurance when you ship your item. If your Product was not adequately packaged, we will refuse receipt and the damaged package will be returned to you at your cost. If you do not have the original Emotiva Audio packaging, please check with our sales department to purchase replacement-shipping cartons.

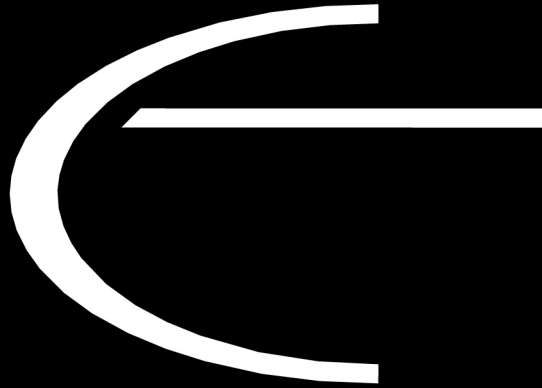
How does the Warranty and service apply to international orders?

The Product Warranty is only valid in the country where the Emotiva product was originally shipped via an authorized dealer, distributor, or direct from the Emotiva factory. The Warranty is subject to change at any time depending on the laws and regulations within your specific country. Please check with your distributor for a complete understanding of the warranty in your county.

If you purchased your Emotiva Product outside of the USA and wish to have it serviced at the factory, all freight charges are your responsibility. If you do not have an authorized distributor or repair center in your country, your Product must come back to the Emotiva USA factory for warranty service.

Notes

All information contained in this manual is accurate to the best of our knowledge at the time of publication. In keeping with our policy of ongoing product improvement, we reserve the right to make changes to the design and features of our products without prior notice.



Emotiva Audio Corporation
135 Southeast Parkway Court
Franklin, TN 37064

www.emotiva.com